

RECEIVED

PATENT COOPERATION TREATY

APR 20 2005

From the INTERNATIONAL BUREAU

**PCT**NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
APPLICATION AS PUBLISHED OR REPUBLISHED

To:

LICATA, Jane, Massey  
Licata & Tyrrell P.C.  
66 E. Main Street  
Marlton, NJ 08053  
ETATS-UNIS D'AMERIQUEDate of mailing (*day/month/year*)  
14 April 2005 (14.04.2005)Applicant's or agent's file reference  
DC-0261**IMPORTANT NOTICE**International application No.  
PCT/US2004/015341International filing date (*day/month/year*)  
17 May 2004 (17.05.2004)Priority date (*day/month/year*)  
29 May 2003 (29.05.2003)

Applicant

TRUSTEE OF DARMOUTH COLLEGE et al

The International Bureau transmits herewith the following documents:

- ☐ copy of the international application as published by the International Bureau on under No. WO
- ☒ copy of international application as republished by the International Bureau on 14 April 2005 (14.04.2005) under No. WO 2004/105575
- For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (*as the case may be*) on the front page of the attached document.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Nora Lindner

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 89 65

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number  
**WO 2004/105575 A3**

(51) International Patent Classification<sup>7</sup>: **G01N 33/53**, 33/537, 33/566

(21) International Application Number:  
PCT/US2004/015341

(22) International Filing Date: 17 May 2004 (17.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/474,201 29 May 2003 (29.05.2003) US  
60/501,494 9 September 2003 (09.09.2003) US

(71) Applicant (for all designated States except US):  
**TRUSTEE OF DARMOUTH COLLEGE** [US/US];  
Technology Transfer Office, 11 Rope Ferry Road, Hanover,  
NH 03755-1404 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FOOTE, Robert, S.**  
[US/US]; 98 Rice Road, Hartland, VT 05048 (US). **YEO,**  
**Kiang-Tech, Jerry** [US/US]; 2 Moody Lane, Etna, NH  
03750 (US).

(74) Agents: **LICATA, Jane, Massey et al.**; Licata & Tyrrell  
P.C., 66 E. Main Street, Marlton, NJ 08053 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
14 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD FOR DETECTING CARDIAC ISCHEMIA VIA CHANGES IN B-NATRIURETIC PEPTIDE LEVELS

(57) Abstract: The present invention relates to a method of detecting cardiac ischemia by measuring the levels of BNP or NT-proBNP. Increases in BNP or NT-proBNP levels in an individual are indicative of cardiac ischemia.

WO 2004/105575 A3

# INTERNATIONAL SEARCH REPORT

PCT/US04/15341

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 33/53, 33/537, 33/566

US CL : 435/7.1, 7.92; 436/501, 811

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1, 7.92; 436/501, 811

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
MEDLINE, BIOSIS, EMBASE, CHEM ABSTRACTS, SCISEARCH, USPATFULL, CAPLUS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,124,430 A (MISCHAK et al) 26 September 2000 (26.09.2000), see entire document.	1-3
A	5.786.163 A (HALL) 28 July 1998 (28.07.1998), see entire document.	1-3
A	US 6,117,644 A (DEBOLD) 12 September 2000 (12.09.2000), see entire document.	1-3
X,P	US 2003/0109420 A1 (VALKIRS et al) 12 June 2003 (12.06.03), see pages 39-40.	1-3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

04 January 2005 (04.01.2005)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Date of mailing of the international search report

14 FEB 2005

Authorized officer

Gary Counts

Telephone No. (571) 272-1600